Abstracts

A Probe for Measuring Temperature in Radio-Frequency-Heated Material (Short Papers)

R.R. Bowman. "A Probe for Measuring Temperature in Radio-Frequency-Heated Material (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.1 (Jan. 1976 [T-MTT]): 43-45.

Measuring temperature in material being heated by radio-frequency (RF) fields is difficult because of field perturbations and direct heating caused by any conventional leads connected to the temperature sensor. A temperature probe consisting simply of a thermistor and plastic high-resistance leads appears to practically eliminate these problems. The design goals are described, and the performance of an initial test model of this type of probe is discussed.

❑ Return to main document.